

AGILENT TECHNOLOGIES
Legal Department, M/S DL429
Intellectual Property Administration
P.O. Box 7599
Leland, CO 80537-0599

PATENT APPLICATION

**IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE**

INVENTOR(S): Kenneth H. Wong; James C. Liu; Johan J. Ericsson

CASE: 10030764-1

SUBJECT: OBTAINING CALIBRATION PARAMETERS FOR A THREE-PORT
DEVICE UNDER TEST

**COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231**

SIR:

INFORMATION DISCLOSURE STATEMENT

Applicant is herewith enclosing a Form PTO-1449 with four enclosed references and 10 cited U.S. Patents. The references provide background information about calibration of network analyzers.

Respectfully Submitted,

By Douglas L. Weller
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Date: November 12, 2003
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LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			ATTORNEY DOCKET NO. 10030764-1	SERIAL NO.
			APPLICANT Kenneth H. Wong, et al.	
			FILING DATE	GROUP

REFERENCE DESIGNATION**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	*	DOCUMENT NUMBER	DATE	NAME
		5,434,511	7/18/95	Adamian et al.
		5,548,221	8/20/96	Adamian et al.
		5,467,021	11/14/95	Adamian et al.
		5,537,046	7/16/96	Adamian et al.
		5,552,714	9/3/96	Adamian et al.
		5,578,932	11/26/96	Adamian
		5,587,934	12/24/96	Oldfield et al.
		5,548,538	8/20/96	Grace et al.
		5,661,404	8/26/97	Yanagawa et al.

FOREIGN PATENT DOCUMENT

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION YES NO

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	HP 8712C and HP 8714C RF Network Analyzer User's Guide, Part No. 08712-90056, available from Hewlett-Packard Company, October, 1996, pp. 6-1 through 6-14.
	A. Ferrero, et al. "Two-Port Network Analyzer Calibration Using an Unknown 'Thru'", <i>IEEE Microwave and Guided Wave Letter</i> , Vol. 2, No. 12, Dec. 1992, pp. 505-507.
	S. Goldberg, et al. "Accurate Experimental Characterization of Three-Ports", <i>IEEE MTT-S Digest</i> , 1991, pp. 241-244.
	M. Davidovitz, "Reconstruction of the S-Matrix for a 3-Pot Using Measurements at Only Two Ports", <i>IEEE Microwave and Guided Wave Letters</i> , Vol. 5, No. 10, October 1995, pp. 349-350.

EXAMINER**DATE CONSIDERED**

* Copies of these references are not enclosed Pursuant to 37 CFR 1.98(d). (See accompanying IDS)